Linear Illumination System

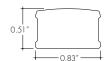


Features



- 24VDC Class 2 and IP68 rated for wet locations, fixtures made to order up to 144". Fixtures can be linked up to 48' depending on output
- Suitable for surface mount, direct view, outdoor, wet, and accent lighting applications
- Dot free even illumination with frosted lens
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- High Color Quality options offer premium quality and vibrant colors with R9 values up to 97
- High Efficacy options offer best in class output and efficacy with over 740 lm/ft and up to 105 lm/W
- 3 Year warranty





Finish Options (see page 2 for additional information)

White

















Technical Information

MODEL	High Color Quality		High I	Efficacy		High Efficacy
OUTPUT OPTIONS	60X2HO	HE48LO	HE48SO	HE48MO	НЕ48НО	HE64VHO
Lumens Output (3000K) (with a Clear Lens)	499 lm/ft	198 lm/ft	274 lm/ft	366 lm/ft	587 lm/ft	744 lm/ft
Average Power Consumption (for a 4' section)	7.3 W/ft	1.9 W/ft	2.8 W/fr	3.5 W/ft	6.5 W/ft	7.5 W/ft
Efficacy	68 lm/W	104 lm/W	98 lm/W	105 lm/W	90 lm/W	99 lm/W
Max Run Length (in series)	26 ft	48 ft	42 ft	33 ft	21 ft	15 ft
Max Ambient Temperature*	45°C [113°F]		50°C [122°F]		45°C [113°F]	35°C [95°F]

^{*}Max Ambient Temperature to maintain L70 of 50k+ hours. Exceeding Max Ambient Temperature may result in decreased life/output. Consult Technical Support for specific inquiries.

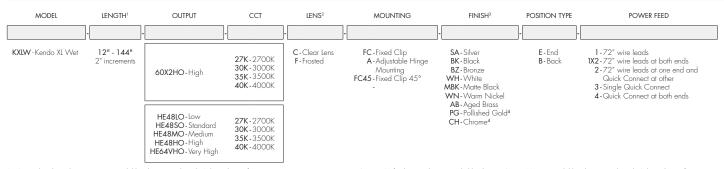
High Color Quality (60X2)

CCT	Multiplier		TM	-30	
ССТ	(reference - 3000K)	CRI	Rf	R_g	R9
2700K	0.97	97	96	99	93
3000K	1.00	96	95	99	92
3500K	1.01	96	95	100	94
4000K	1.34	97	96	102	92

High Efficacy (HE48/HE64)

ССТ	Multiplier		TM	-30	
	(reference - 3000K)	CRI	Rf	R_g	R9
2700K	0.94	92	90	99	46
3000K	1.00	92	89	99	62
3500K	1.02	92	89	99	58
4000K	1.02	92	86	94	52

Ordering Code

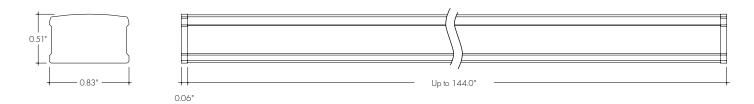


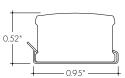
Custom lengths and increments are available, please consult Inside Sales with specific request.
 All High Efficacy options can be used to comply with Title 24 JA8. High Color Quality options can be used to comply with Title 24 JA8 depending on Output, CCT, and Lens selections, see multiplier charts to calculate specific efficacies.

^{3 -} Non SA finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request. 4 - Polished Gold finishes have a maximum fixture length of 48°, and Chrome finishes have a maximum fixture length of 72'.

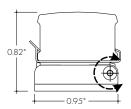


Product Dimensions

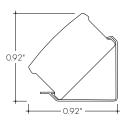




with fixed clip mounting bracket



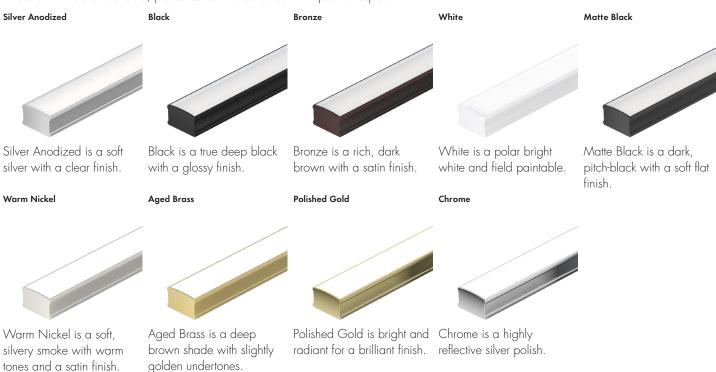
with adjustable hinge mounting bracket



with fixed clip 45° mounting bracket

Finish Options

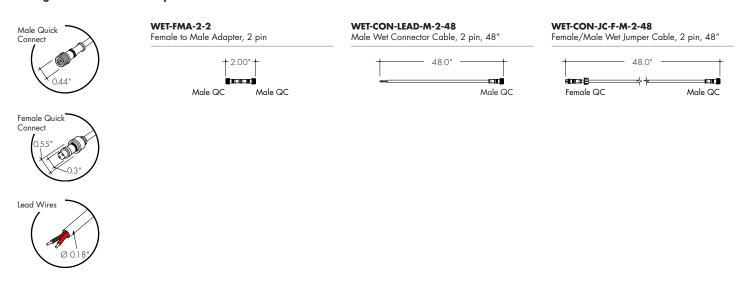
- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Silver Anodized finishes may have extended lead times.
- Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".
- Custom RALs are available, please consult Inside Sales with specific request.



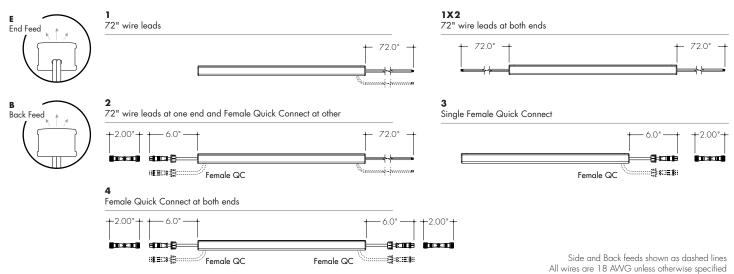


Powerfeeds and Connectors

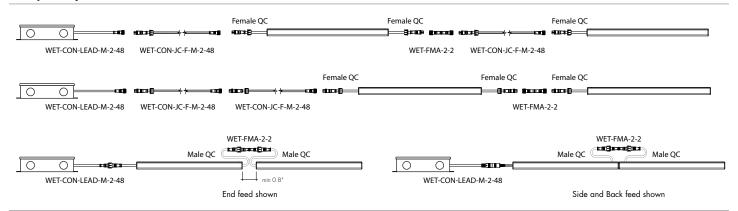
Linking and Extension Cable Options



Powerfeeds Position/Type



Sample Layout





Light Transmission and Dotting

Lens/Accessory

Output Options	Clear Lens	Frosted Lens
60X2HO	CD	ND
HE48LO	CD	ND
HE48SO	CD	ND
HE48MO	CD	ND
HE48HO	CD	ND
HE64VHO	CD	ND
Transmission Percentage	100%	58%



CD - Clear DottingSD - Slight DottingND - No Dotting

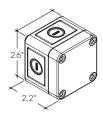
Accessory Options

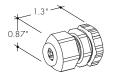
LVSP-WET

Splice box: wet rated, low voltage, gray

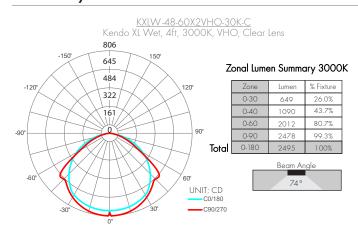
LVSP-WET-CM

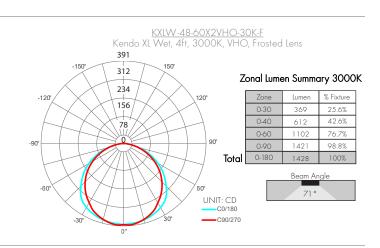
Connector for splice box, low voltage for cable management, gray.





Photometry







Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

High Color Quality (60X2)

				i iigii v		ouilly (JUN2)				
Nominal Length	Back and End Feed	Watts	Nominal Length	Back and End Feed	Watts	Nominal Length	Back and End Feed	Watts	Nominal Length	Back and End Feed	Watts
(in)	Actual Length	НО	(in)	Actual Length	НО	(in)	Actual Length	НО	(in)	Actual Length	НО
12	10 11/16	8.3	47	_	-	82	81	45.4	117	116 3/16	61.1
13	12 2/16	8.3	48	47 4/16	28.2	83	82 7/16	46.3	118	117 9/16	62.1
14	13 8/16	8.9	49	48 11/16	29.3	84	83 13/16	46.7	119	119	62.5
15	14 15/16	9.5	50	_	_	85	-	-	120	_	-
16	_	_	51	50 1/16	29.9	86	85 4/16	47.2	121	120 6/16	63.5
17	16 5/16	10.1	52	51 8/16	31.0	87	86 10/16	48.1	122	121 13/16	63.8
18	17 12/16	11.3	53	52 14/16	31.5	88	-	-	123	_	-
19	-	_	54	-	-	89	88 1/16	48.5	124	123 3/16	64.2
20	19 2/16	11.9	55	54 5/16	32.1	90	89 7/16	49.4	125	124 10/16	64.9
21	20 9/16	13.1	56	55 11/16	33.1	91	90 14/16	49.9	126	-	-
22	21 15/16	13.7	57	_	_	92	-	-	127	126	65.2
23	-	_	58	57 2/16	33.7	93	92 4/16	50.3	128	127 7/16	65.9
24	23 6/16	14.3	59	58 8/16	34.8	94	93 11/16	51.2	129	128 13/16	66.3
25	24 12/16	15.5	60	59 15/16	35.3	95	-	-	130	-	-
26	-	-	61	_	-	96	95 1/16	51.7	131	130 4/16	66.6
27	26 3/16	16.1	62	61 5/16	35.9	97	96 8/16	52.6	132	131 10/16	67.3
28	27 9/16	17.3	63	62 12/16	36.9	98	97 14/16	53.0	133	-	-
29	29	17.9	64	_	-	99	-		134	133 1/16	67.6
30	-	-	65	64 2/16	37.4	100	99 5/16	53.5	135	134 7/16	68.2
31	30 6/16	19.1	66	65 9/16	38.4	101	100 11/16	54.4	136	135 14/16	68.5
32	31 13/16	19. <i>7</i>	67	66 15/16	38.9	102	-	-	137	-	_
33	-	-	68	_	-	103	102 2/16	54.8	138	137 4/16	68.8
34	33 3/16	20.3	69	68 6/16	39.4	104	103 8/16	55.7	139	138 11/16	69.3
35	34 10/16	21.6	70	69 12/16	40.4	105	104 15/16	56.1	140	-	-
36	-	_	71	_	_	106	-	-	141	140 1/16	69.6
37	36	22.2	72	71 3/16	40.9	107	106 5/16	56.5	142	141 8/16	70.2
38	37 7/16	23.3	73	72 9/16	41.9	108	107 12/16	57.4	143	142 14/16	70.5
39	38 13/16	23.9	74	74	42.4	109	-	-	144	-	-
40	-	-	75	-	-	110	109 2/16	57.9			
41	40 4/16	24.4	76	75 6/16	43.2	111	110 9/16	58.8			
42	41 10/16	25.5	77	76 13/16	43.7	112	111 15/16	59.3	_		
43	-	-	78	-	-	113	-	-	-		
44	43 1/16	26.0	79	78 3/16	44.1	114	113 6/16	59.7	-		
45	44 7/16	27.1	80	79 10/16	45.0	115	114 12/16	60.7	_		
46	45 14/16	27.7	81	-	_	116	-	-			

Linear Illumination System



Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

High Efficacy (HE48)

Nominal	Back and End Feed		W	atts		Nominal	Back and End Feed		W	atts		Nominal	Back and End Feed		W	atts		Nominal	Back and End Feed		W	atts	
Length (in)	Actual Length	LO	so	МО	но	Length (in)	Actual Length	LΟ	so	МО	но	Length (in)	Actual Length	lО	so	МО	но	Length (in)	Actual Length	LO	so	мо	НО
12	10 11/16	1.7	2.5	3.5	5.7	47	46 2/16	6.9	10.7	13.3	24.7	82	81 9/16	12.5	19.9	23.9	42.2	117	_	_	-	-	_
13	12 11/16	1.7	2.5	3.5	5.7	48	-	_	-	-	_	83	_	-	-	_	-	118	117	17.5	27.7	34.3	58.7
14	-	-	-	-	-	49	48 2/16	<i>7</i> .1	11.2	13.9	25.4	84	83 9/16	12.8	20.3	24.5	43.1	119	119	17.8	28.1	34.9	59.6
15	14 10/16	2.0	3.0	4.0	7.2	50	-	_	-	-	-	85	-	-	_	-	-	120	-	-	-	-	_
16	-	_	_	-	_	51	50 1/16	7.4	11.7	14.5	26.3	86	85 8/16	13.1	20.8	25.1	44.1	121	120 15/16	18.1	28.6	35.5	60.5
17	16 10/16	2.4	3.5	4.6	8.7	52	-	-	_	-	-	87	-	-	_	-	-	122	_	-	-	-	
18	-	-	_	-	-	53	52 1/16	7.7	12.3	15.1	27.4	88	87 8/16	13.4	21.3	25.7	45.0	123	122 15/16	18.3	29.0	36.0	62.1
19	18 9/16	2.7	3.9	5.2	10.2	54	-	-	-	-	-	89	_	-	-	-	-	124	-	-	-	-	
20	-	-	-	-	-	55	54	8.0	12.9	15.7	28.5	90	89 7/16	13.7	21.7	26.3	46.0	125	124 14/16	18.4	29.5	36.6	63.8
21	20 9/16	3.0	4.4	5.8	11.7	56	56	8.4	13.5	16.4	29.5	91		_	_	_	_	126	_	-	_	-	
22	-	_	_	-	-	57	-	_	_	-	-	92	91 7/16	14.0	22.1	26.9	47.0	127	126 14/16	18.6	29.9	37.2	65.4
23	22 8/16	3.4	4.9	6.4	13.2	58	57 15/16	8.7	14.0	17.0	30.6	93	_	-	_	-	_	128	-	-	_	-	_
24	-	_	_	-	_	59	-	_	_	-	_	94	93 6/16	14.3	22.6	27.5	47.9	129	128 13/16	18.8	30.4	37.7	67.0
25	24 8/16	3.7	5.4	7.0	14.7	60	59 15/16	9.0	14.6	17.6	31.6	95		_	_	_	_	130	_	-	_	-	
26	ı	-	-	-	-	61	-	-	-	-	-	96	95 6/16	14.4	22.8	27.8	48.4	131	130 13/16	18.9	30.8	38.3	68.6
27	26 7/16	4.1	5.9	7.5	15.8	62	61 14/16	9.4	15.2	18.2	32.6	97	_	_	-	_	_	132	_	_	-	-	
28	-	_	-	-	-	63	-	-	-	-	-	98	97 5/16	14.7	23.3	28.5	49.4	133	132 12/16	19.1	31.2	38.9	70.2
29	28 7/16	4.4	6.4	8.1	16.8	64	63 14/16	9.7	15.6	18. <i>7</i>	33.7	99	_	-	-	-	-	134	_	_	-	-	-
30	-	_	-	-	_	65	-	_	-	-	_	100	99 5/16	15.0	23.7	29.0	50.4	135	134 12/16	19.3	31.8	39.4	70.7
31	30 6/16	4.8	6.9	8.7	17.9	66	65 13/16	10.0	16.1	19.2	34.7	101	_	-	_	-	_	136	-	-	_	-	
32	-	_	_	-	_	67	-	_	_	-	_	102	101 4/16	15.3	24.1	29.6	51.3	137	136 11/16	19.5	32.3	40.0	71.2
33	32 6/16	5.0	7.2	9.0	18.5	68	67 13/16	10.4	16.5	19.8	35.7	103		_	_	_	_	138	_	-	_	-	_
34	-	_	_	-	_	69	-	_	_	-	_	104	103 4/16	15.6	24.6	30.2	52.3	139	138 11/16	19.8	32.8	40.6	71.8
35	34 5/16	5.4	7.7	9.6	19.5	70	69 12/16	10. <i>7</i>	17.0	20.3	36.7	105		_	_	_	_	140	_	-	_	_	
36	-	_	_	-	-	71	-	_	-	-	_	106	105 3/16	15.8	25.0	30.7	53.2	141	140 10/16	20.0	33.3	41.1	72.3
37	36 5/16	5.7	8.2	10.2	20.6	72	71 12/16	11.0	17.4	20.8	37.7	107	-	-	-	-	-	142	_	_	-	-	
38	-	_	_	-	_	73	-	_	_	-	_	108	107 3/16	16.1	25.5	31.3	54.2	143	142 10/16	20.2	33.9	41.7	72.8
39	38 4/16	6.0	8.7	10.8	21.5	74	73 11/16	11.3	17.9	21.4	38.7	109		_	_	_	_	144	_	-	_	-	_
40	ı	-	-	-	-	75	ı	_	-	-	-	110	109 2/16	16.4	25.9	31.9	55.2						
41	40 4/16	6.2	9.2	11.4	22.3	76	75 11/16	11.6	18.4	22.0	39.6	111	_	_	-	_	_						
42	ı	_	-	-	-	77	-	_	-	-	_	112	111 2/16	16.7	26.4	32.5	56.1						
43	42 3/16	6.4	9.7	12.0	23.1	78	<i>77</i> 10/16	11.9	18.9	22.7	40.5	113	_	-	-	_	_						
44	_	_	_	-	_	79	_	_	_	-	_	114	113 1/16	17.0	26.8	33.1	57.0						
45	44 3/16	6.7	10.2	12.6	23.9	80	79 10/16	12.2	19.4	23.3	41.4	115	-	-	-	_	_						
46	_	_	-	-	-	81	-	_	-	-	-	116	115 1/16	17.3	27.3	33.7	57.9						



Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

High Efficacy (HE64)

				3	9	ucy (HEO	*/				
Nominal	Back and End Feed Actual	Watts	Nominal	Back and End Feed Actual	Watts	Nominal	Back and End Feed Actual	Watts	Nominal	Back and End Feed Actual	Watts
Length (in)	Length	VHO	Length (in)	Length	VHO	Length (in)	Length	VHO	Length (in)	Length	VHO
12	11 8/16	7.6	47	46 5/16	28.2	82	81 2/16	50.4	117	-	-
13	13	7.6	48	47 13/16	29.5	83	82 10/16	51. <i>7</i>	118	117 8/16	72.8
14	-	-	49	-	-	84	_	-	119	119	73.3
15	14 8/16	8.9	50	49 5/16	30.1	85	84 3/16	52.3	120	-	-
16	-	-	51	50 14/16	31.4	86	85 11/16	53.6	121	120 8/16	74.4
17	16	9.5	52	-	_	87	_	-	122	-	-
18	17 9/16	10.7	53	52 6/16	32.0	88	87 3/16	54.2	123	122	74.8
19	-	-	54	53 14/16	33.3	89	88 11/16	55.5	124	123 8/16	75.6
20	19 1/16	11.4	55	-	-	90	_	-	125	-	_
21	20 9/16	12.6	56	55 6/16	34.0	91	90 3/16	56.2	126	125 1/16	76.0
22	_	_	57	56 14/16	35.2	92	91 12/16	57.5	127	126 9/16	76.8
23	22 1/16	13.2	58	-	-	93	-	_	128	-	-
24	23 9/16	14.5	59	58 7/16	36.5	94	93 4/16	58.2	129	128 1/16	77.2
25	-	_	60	59 15/16	37.2	95	94 12/16	59.5	130	129 9/16	78.0
26	25 2/16	15.1	61	-	_	96	_	-	131	-	_
27	26 10/16	16.4	62	61 7/16	38.4	97	96 4/16	60.1	132	131 2/16	78.4
28	-	_	63	62 15/16	39.1	98	97 13/16	61.4	133	132 10/16	79.2
29	28 2/16	17.0	64	-	_	99	-	_	134	-	_
30	29 10/16	18.2	65	64 8/16	40.4	100	99 5/16	62.0	135	134 2/16	79.6
31	-	_	66	66	41.0	101	100 13/16	63.2	136	135 10/16	80.3
32	31 3/16	18.9	67	-	-	102	_	-	137	-	_
33	32 11/16	20.1	68	67 8/16	42.3	103	102 5/16	63.8	138	137 2/16	80.6
34	-	_	69	-	-	104	103 13/16	65.0	139	138 11/16	81.3
35	34 3/16	20.7	70	69	42.9	105	-	-	140	-	-
36	35 11/16	22.0	71	70 8/16	44.2	106	105 6/16	65.6	141	140 3/16	81.7
37	-	_	72	-	-	107	106 14/16	66.8	142	141 11/16	82.4
38	37 3/16	22.6	73	72 1/16	44.9	108	-	-	143	-	-
39	38 12/16	23.9	74	73 9/16	46.1	109	108 6/16	67.4	144	143 3/16	82.7
40	-	-	75	-	-	110	109 14/16	68.5			
41	40 4/16	24.5	76	75 1/16	46.7	111	_	-	_		
42	41 12/16	25.7	77	76 9/16	48.0	112	111 7/16	69.6			
43	-	_	78	-	_	113	112 15/16	70.1	_		
44	43 4/16	26.4	79	78 2/16	48.6	114	_	_	-		
45	44 13/16	27.6	80	79 10/16	49.8	115	114 7/16	71.2	_		
46	-	_	81	-	_	116	115 15/16	71.7			

Linear Illumination System



Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

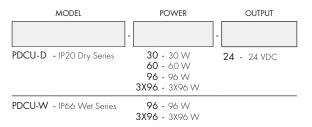
Wattage		Maxi	mum Wire Lengt	h From Power Su	pply to Start of R	tun [ft]	
[W]	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5



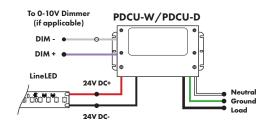
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC



0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%. For a complete list of compatible dimmers, see $\underline{\text{Compatible Dimming Chart}}$ on the Resources page.

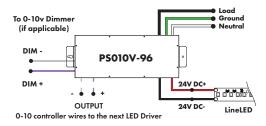


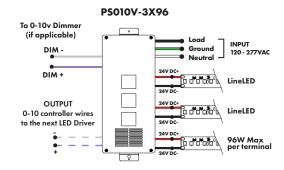
MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33	1.32"	1.56"	1.13"

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

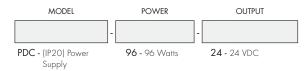


MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

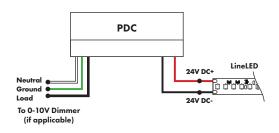




Triac, MLV, & ELV Compatible Dimmers



MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"

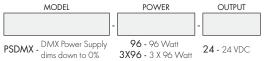




Power Supplies

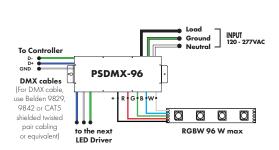
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

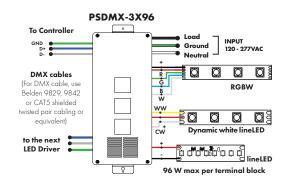
DMX Dimming Power Supplies 120VAC - 277VAC



Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



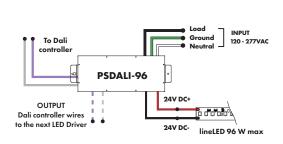


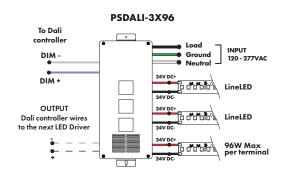
DALI 0% Dimming Power Supplies 120VAC - 277VAC



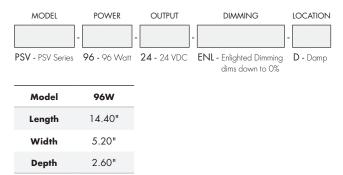
Features eldoLED's LINEARdrive configurable dimmable drivers

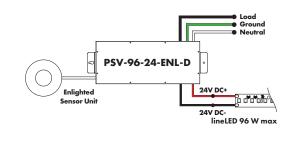
96W	3X96
14.40"	15.75"
5.20"	6.62"
2.60"	4.95"
	14.40" 5.20"





Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC



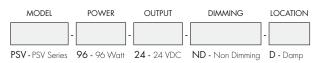




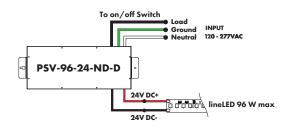
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Non-Dimming Power Supply 120VAC - 277VAC



MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



\$\$LUTRON

Luminii is a Lutron OEM Advantage Partner

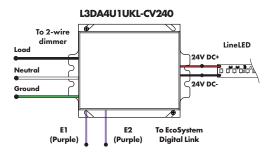
Lutron Power Supplies 1%

MODEL

L3DA4U1UKL-CV240

 $Hi-lume^{TM}$ 1% EcoSystem Voltage LED driver 40W max

MODELS	L3DA4U1UKL-CV240
Length	4.98"
Width	4.00"
Depth	2.62"



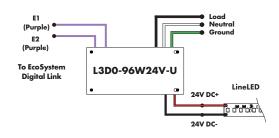
%LUTRON®

Lutron Power Supplies 0.1%

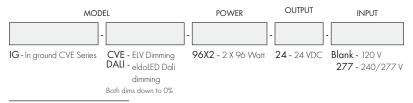
MODEL

L3D0-96W24V-U		
Hi-lume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™		

MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"



In-Ground Power Supplies



MODELS	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"

